

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

Division of Surface Water

Application for Authorization: Class B Biosolids Beneficial Use Sites

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Biosolids Treatment Works Information

Treatment works name: <u>Emerald Bio Energy</u>		
Ohio NPDES permit #: <u>41N00204*AD</u>	County: <u>Morrow</u>	
Mailing address: <u>PO Box 249</u>		
City: <u>Delaware</u>	State: <u>Ohio</u>	Zip: <u>43015</u>
Operator of record: <u>Logan Randles</u>		
Telephone number: <u>(419) 253-5300</u>		
Email address: <u>lrandles@energy.com</u>		

Certification Statement

1. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
2. I have read and understand Chapter 3745-40 of the Ohio Administrative Code (OAC) and I agree to beneficially use biosolids in accordance with all applicable beneficial use requirements and restrictions established in Chapter 3745-40 of the Ohio Administrative Code.
3. I agree to only beneficially use biosolids that have satisfied a pathogen reduction alternative and a vector attraction reduction option and have metals concentration below the pollutant ceiling concentrations as established in Chapter 3745-40 of the Ohio Administrative Code.
4. I agree to maintain all applicable records established in Chapter 3745-40 of the Ohio Administrative Code.


Signature

6/13/19
Date

This form shall be signed by the operator of record for the treatment works, be an original signature, not a copy, and must be less than one year old at the time the application for transfer is

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submitted to Ohio EPA for review.

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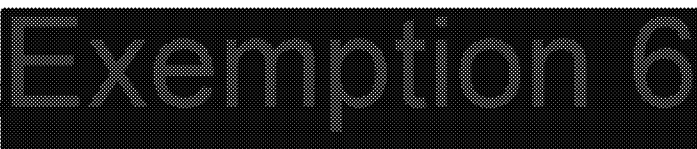
Form BUA-1
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Owner Consent for Beneficial Use



Certification Statement

1. I agree to allow biosolids generated by the treatment plant identified on Form BUA-1 to be beneficially used on my property at agronomic rates.
2. I agree to allow federal, state and local regulatory staff access to the beneficial use site for the purposes of inspecting and authorizing the beneficial use site, beneficially using biosolids, and collecting and analyzing samples from the beneficial use site. I reserve the right to ask the above parties for proper identification at any time.
3. I certify that I am holder of legal title to the property described on application form BUA-5, or am authorized by the holder to give consent for the land application of biosolids, and that there are no restrictions to the granting of consent under this form.

X  6/5/2019
Sign Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, "beneficial use site owner" means the person who owns the legal rights to the proposed beneficial use site.

² In the event the owner of the beneficial use site changes, Form BUA-2 must be revised and resubmitted to Ohio EPA.

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Beneficial Use Site Operator Consent for Beneficial Use

Exemption 6

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.

Exemption 6

6, 5, 2019
Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, "beneficial use site operator" means the person who plants, grows, harvests or otherwise manages feed crops, fiber crops, food crops or pasture land on the proposed beneficial use site.

² In the event the operator of the beneficial use site changes, Form BUA-3 must be revised and resubmitted to Ohio EPA.

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Form BUA-3
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Beneficial User Information

Beneficial user ¹ : Emerald Bio Energy		
Contact person: Logan Randles		
Mailing address: PO Box 249		
City: Delaware	State: Ohio	Zip: 43015
Telephone number: (419) 253-5300		
Email address: lrandles@renergy.com		

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.

 _____
Signature² Date 6/13/19

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, the beneficial user means the person who sprays or spreads Class B biosolids onto the surface of the beneficial use site, injects below the surface of the beneficial use site, or incorporates into the soil of the beneficial use site, for the purpose of providing an agronomic benefit.

² In the event the beneficial user of the beneficial use site changes, Form BUA-4 must be revised and resubmitted to Ohio EPA.

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Form BUA-4
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Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: <u>DES-01-07</u>															
Beneficial use site location: <u>SW corner of SR521 and CR34</u>															
County: <u>Delaware</u>	Township: <u>Kingston</u>														
Latitude: <u>40.323882</u>	Longitude: <u>- 82.922187</u>														
Total acreage proposed for beneficial use: <u>93.56</u>															
Type of beneficial use to be performed: Surface application Injection or immediate incorporation <u>X</u>	Ground slope percent: <table border="1"><tr><td>Less than 15%</td><td><u>X</u></td><td>15% to 19.9%</td><td> </td></tr><tr><td>Greater than 20%</td><td> </td><td> </td><td> </td></tr></table>	Less than 15%	<u>X</u>	15% to 19.9%		Greater than 20%									
Less than 15%	<u>X</u>	15% to 19.9%													
Greater than 20%															
Soil pH (s.u): <u>6.4</u>	Soil phosphorus (mg/kg): <u>9</u>														
Bedrock depth (feet): <u>> 200 cm</u>	Bray Kurtz P1 Mehlich 3 <u>X</u>														
<table border="1"><thead><tr><th>Crop Type</th><th>Expected Yield</th></tr></thead><tbody><tr><td>Corn</td><td><u>180</u></td></tr><tr><td>Soybeans</td><td><u>60</u></td></tr><tr><td>Wheat</td><td><u>50</u></td></tr><tr><td>Pasture</td><td> </td></tr><tr><td>Hay</td><td> </td></tr><tr><td>Other:</td><td> </td></tr></tbody></table>	Crop Type	Expected Yield	Corn	<u>180</u>	Soybeans	<u>60</u>	Wheat	<u>50</u>	Pasture		Hay		Other:		
Crop Type	Expected Yield														
Corn	<u>180</u>														
Soybeans	<u>60</u>														
Wheat	<u>50</u>														
Pasture															
Hay															
Other:															
Type of crops to be grown:															

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Soil Types:

Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class
BeA	Bennington silt loam, 0-2% slope	C/D	none
BeB	Bennington silt loam, 2-6% slope	C/D	none
Gd/B	Cardington silt loam, 2-6% slope	C/D	none
PwA	Pewarno silty clay loam, 0-1% slope	C/D	none

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Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input checked="" type="checkbox"/>
Medical care facility			

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

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Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following:

- A soil map of the proposed beneficial use site;
- A frequency flood class map of the proposed beneficial use site;
- An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code;
- A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled; and
- A copy of the most recent soil test results identified in this form.